FIG. 1

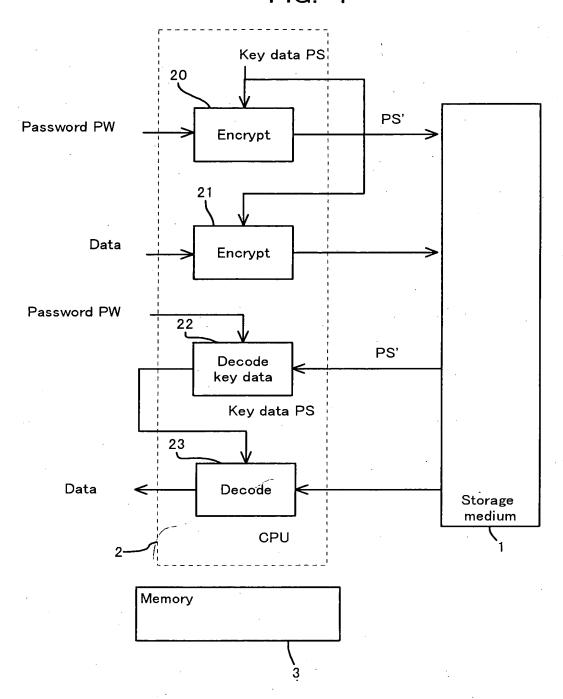


FIG. 2

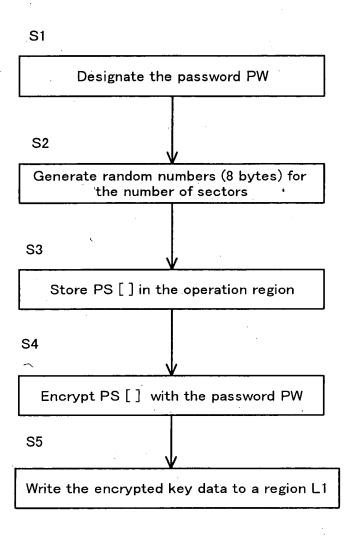
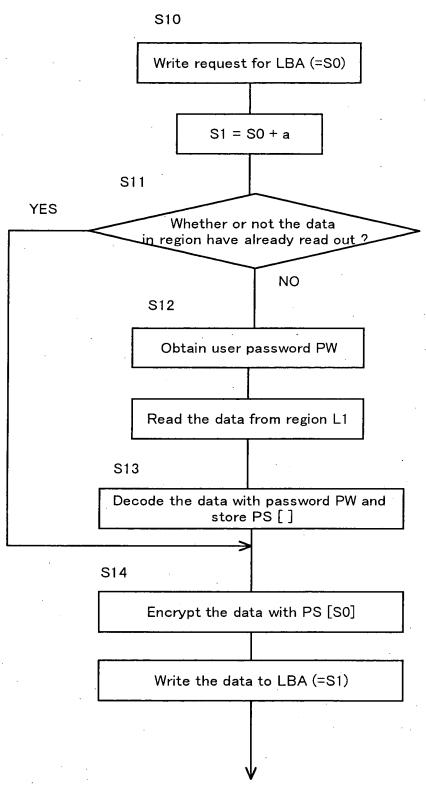


FIG. 3



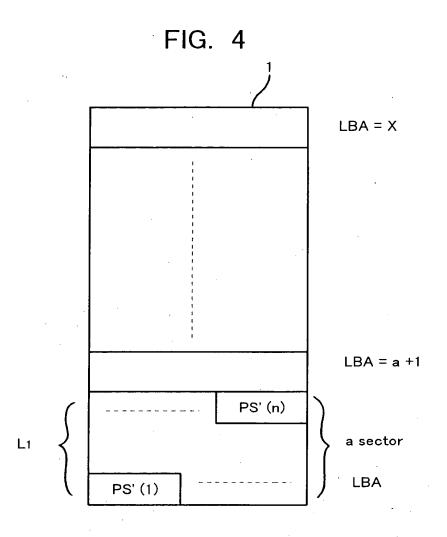


FIG. 5

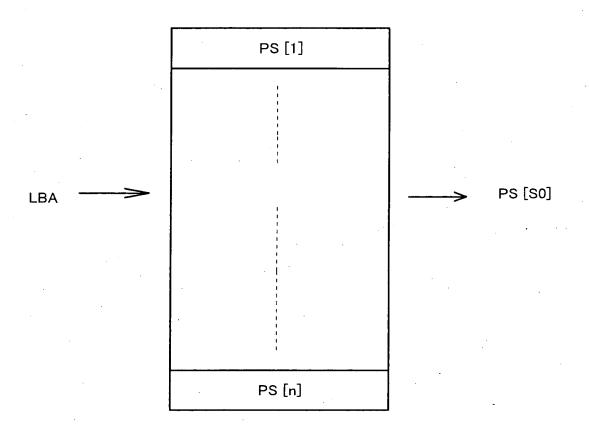


FIG. 6

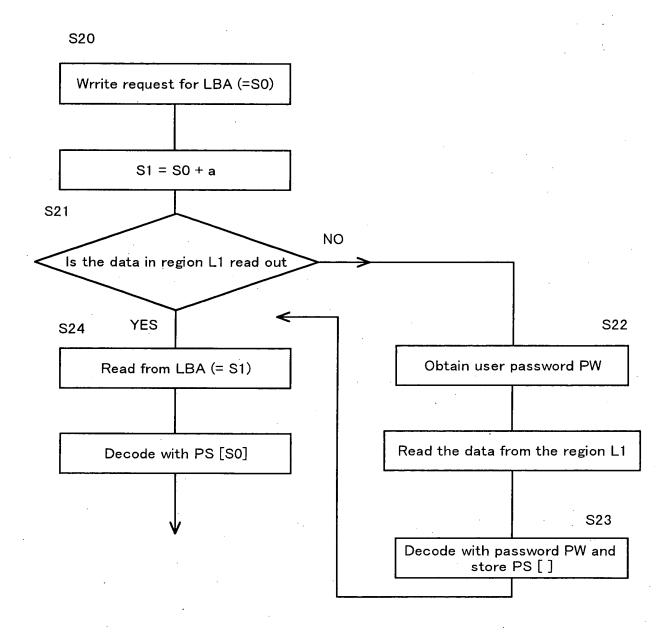


FIG. 7 S30 Write request for LBA (=S0) S1 = S0 + aS31 NO Is the data in region L1 read out S32 S34 YES Obtain user password PW Generate random number R Read the data from the region L1 PS [S0] ← R S35 S33 Encrypt the data with key R Decode with password PW and store PS[] Write the data in LBA (=S1) S36 NO Request a ejection Write counter: WC > 32 of storage medium YES S37 Encypt PS [] with PW Power OFF Write the data in region L1

FIG. 8

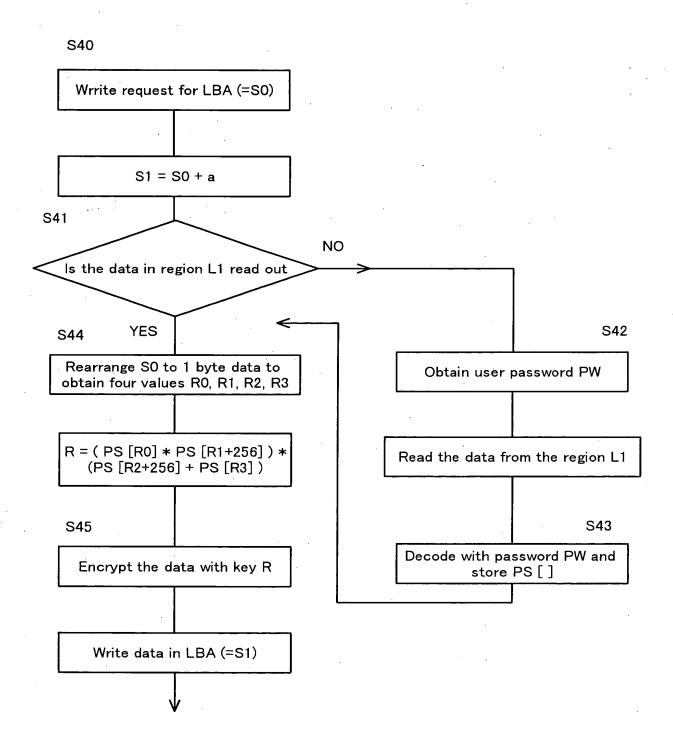


FIG. 9

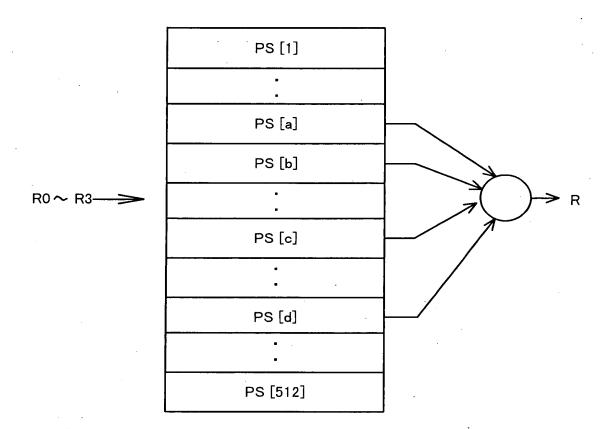
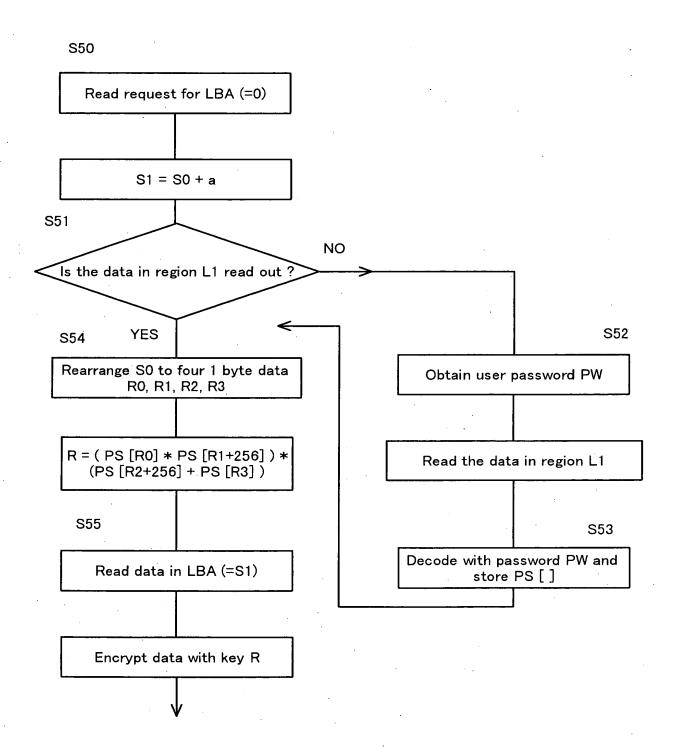


FIG. 10



L1

L2

Ln

FIG. 11

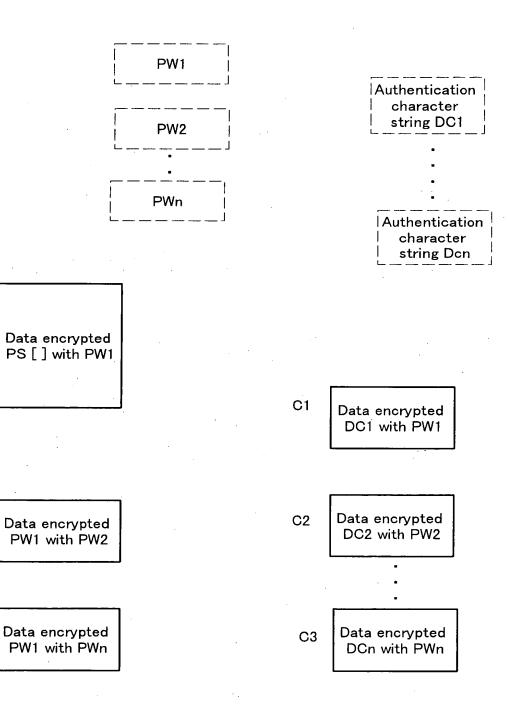


FIG. 12

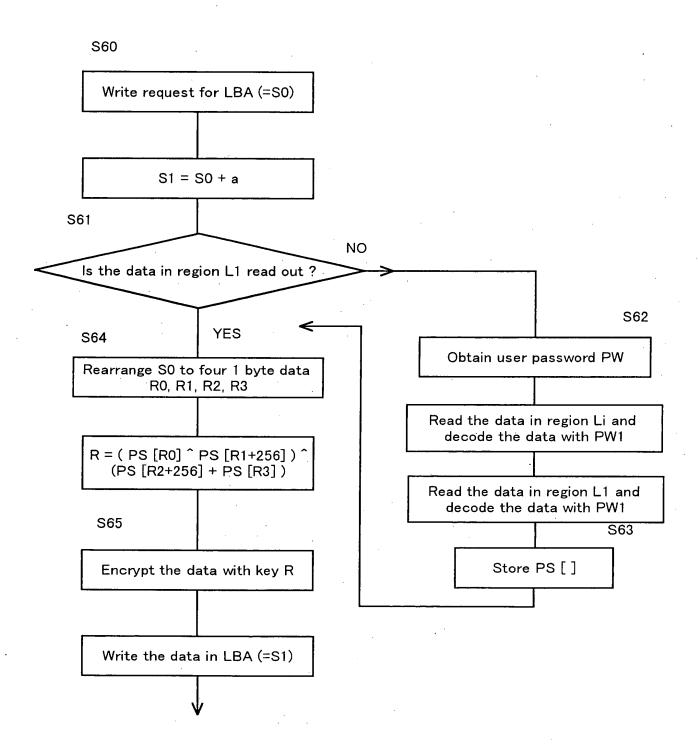


FIG. 13

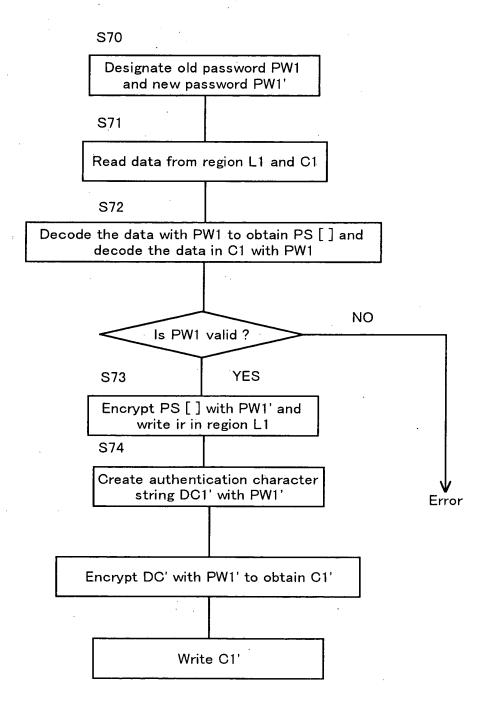






FIG. 14

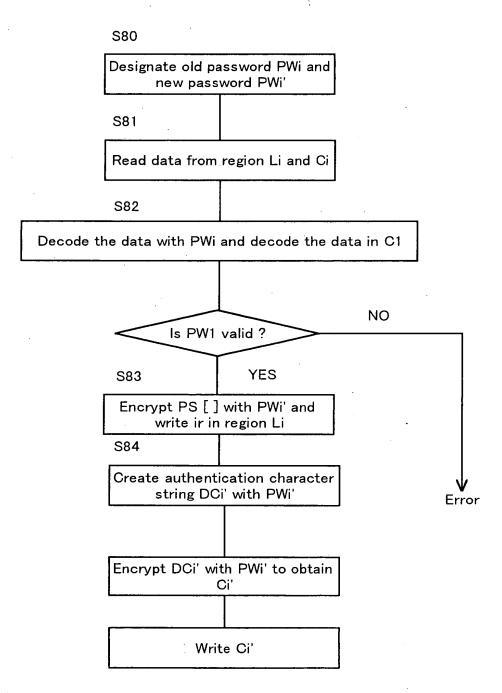






FIG. 15 PRIOR ART

